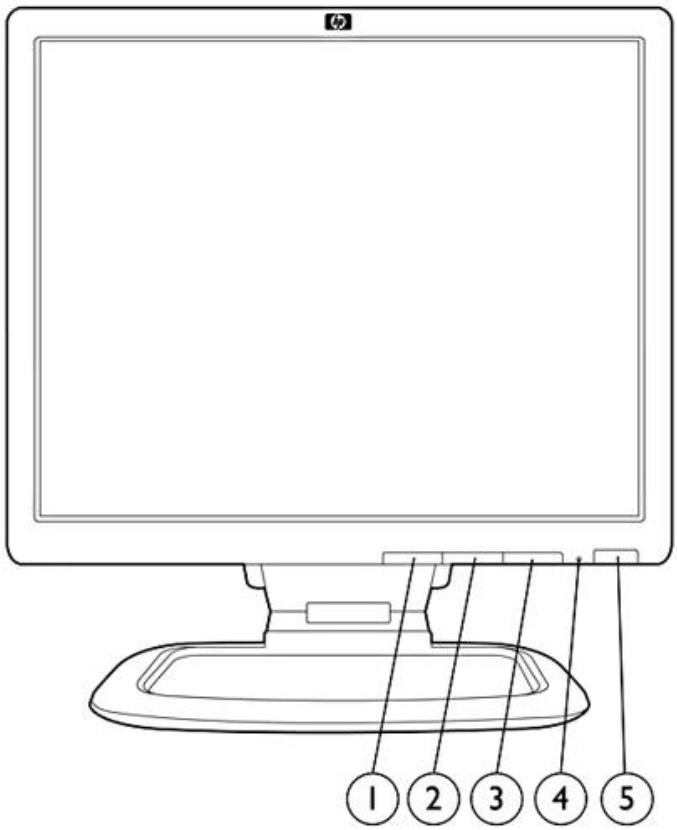
Technical Specifications

Overview

HP L1950 Flat Panel Monitor



1. Menu/Select
2. "-" OSD Navigation/Auto Adjust
3. "+" OSD Navigation/Input Select
4. Power LED
5. Power

Models

Part Number: GG458AA

Technical Specifications

Panel	**Type**	Active matrix, thin film transistor (TFT)
	Viewable Image Area (diagonal)	19 in (48.25 cm)
	Screen Opening (WxH)	14.9 x 11.9 in (37.8 x 30.3 cm)
	Viewing Angle (typical)*	Up to 160° horizontal/160° vertical (10:1 contrast ratio)
	Brightness (typical)*	300 nits (cd/m2)
	Contrast Ratio (typical)*	800:1
	Response Time (typical)*	5 ms (rise + fall)
	Pixel Pitch	0.294 mm
	Backlight Lamp Life (to half brightness)	40K hours
	* All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.	
Video/Other Inputs	**Plug and Play**	Yes (supports VESA DDC2B and DDC/CI; PC2001 compliant)
	USB 2.0 Hub	Self-powered; two ports (cable included)
	Input Signal	Two connectors: one 15-pin mini D-sub analog VGA and one DVI-D
	Input Impedance	75 ohms ± 2%
	Sync Input	Separate sync (HSYNC/VSYNC)
	Video Cable	15-pin D-sub mini connector; detached
	Video Cable Length	70.9 in/1.8 m; detached
Signal Interface/ Performance	**Horizontal Frequency**	24 to 83 kHz
	Vertical Frequency	50 to 77 Hz
	Native Resolution	1280 x 1024 @ 60 Hz (analog) 1280 x 1024 @ 60 Hz (digital)
	Max Resolution (Analog)	1280 x 1024 @ 75 Hz
	Max Resolution (Digital)	1280 x 1024 @ 75 Hz
	Preset VESA Modes (non-interlaced)	640 x 480 @ 60 Hz, 72 Hz, 75 Hz 720 x 400 @ 70 Hz 800 x 600 @ 60 Hz, 72 Hz, 75 Hz 1024 x 768 @ 60 Hz, 70 Hz, 75 Hz 1280 x 1024 @ 60 Hz, 75 Hz
	Preset MAC Mode	832 x 624 @ 75 Hz 1152 x 870 @75 Hz
	Preset SUN Mode	1152 x 900 @ 76 Hz
	Fail Safe Mode	Yes (limits out of range signal messages)
	Max Pixel Clock Speed	140 MHz
	User Programmable Modes	Yes, 15
	Anti-Glare	Yes
	Anti-Static	Yes

DRAFT

Technical Specifications

	AssetControl	Yes (accessible on HP Compaq Business Desktops featuring HP Client Manager)	
	Default Color Temperature	6500° Kelvin	
On Screen Display (OSD) Controls	Buttons and Switches	3-button OSD (menu, minus, plus); power on/off; second level OSD buttons include dual-input switch, auto-adjust	
	Languages	English, Spanish, French, German, Dutch, Italian, Simplified Chinese, Japanese	
	User Controls	Size and positioning, contrast, brightness, clock, clock phase, selectable color temperature, serial number, mode displayed, sleep timer, input selection, factory reset, individual color contrast, full-screen resolution	
Power	Power Supply	Auto-ranging, 90 to 265 VAC; internal power supply	
	Input Power	100 ~ 240 VAC	
	Nominal Current	1.5 A maximum	
	Frequency	50 ~ 60 Hz	
	Average	30 watts	
	Power Saving Mode	< 2 watts	
	Off Mode	< 1 watts	
	Power Cable Length	74.8 in (1.9 m); detached	
Mechanical	Dimensions (H x W x D)	Packaged	22.2 x 16.5 x 9.0 in (56.5 x 42.0 x 22.6 cm)
		Unpacked with stand (minimum)	14.9 x 16.30 x 11.9 in (37.8 x 41.4 x 30.1 cm)
		Unpacked with stand (maximum height)	20.0 x 16.3 x 11.9 in (50.8 x 41.4 x 30.1 cm)
		Base area (footprint)	11.85 x 11.5 in (30.1 x 29.3 cm)
		Panel only (without stand)	16.3 x 13.7 x 2.3 in (41.4 x 34.7 x 5.8 cm)
	Weight	Packaged	19.4 lb (8.8 kg)
		Unpacked with stand	14.3 lb (6.5kg)
		Panel Only (without stand)	8.6 lb (3.9 kg)
	Bezel Width	18 mm left and right, 18 mm top, and 27 mm bottom	
	Tilt Range	-5° to +35°	
	Swivel Range	± 45° horizontal swivel	
	Height Adjustable	Yes (5.1 in/13.0 cm adjustment range)	
	Pivot Rotation	Yes, 90° into portrait orientation	
	Base	Ships attached and is removable (four screws)	
Environmental	Temp. – Operating	41° to 95° F (5° to 35° C)	

DRAFT

	Temp. – Non-operating	-4° to 140° F (-20° to 60° C)
	Humidity – Operating	20% to 80%, non-condensing
	Humidity – Non-operating	5% to 90%
	Altitude – Operating	0 to 12,000 ft (0 to 3,658 m)
	Altitude – Non-operating	0 to 40,000 ft (0 to 12,192 m)
Options	HP Silver Flat Panel Speaker Bar – Part number: EE418AA	Powered directly by the monitor or PC, the Speaker Bar seamlessly attaches to the monitor's lower bezel to bring full audio support to select HP flat panel monitors. Features include dual speakers with full sound range and external jack for headphones. Sold separately. For more information, refer to the HP Silver Flat Panel Speaker Bar QuickSpec.
	HP Compaq dc 7800 Series Ultra-slim Desktop Integrated Work Center Stand – Part number: GN783AA	Allows mounting of a 17- or 19-inch HP flat panel monitor and an HP Compaq dc7800 Ultra-slim Desktop PC on a single stand for the convenience of an "all-in-one" form factor. Sold separately. For more information, refer to this product's QuickSpec document.
	HP Flat Panel Monitor Quick Release – Part number EM870AA[i]	An easy-to-use, VESA-compliant, flat panel monitor mounting solution that allows you to quickly and securely attach a flat panel monitor to a variety of stands, brackets, arms or wall mounts. For more information, refer to this product's QuickSpec document.
Other	Accessories Included	VGA cable, AC power cord, USB cable, user CD-ROM
	Software	HP Display LiteSaver feature allows you to schedule Sleep mode at preset times to help protect the monitor against image retention, drastically lower power consumption and energy costs, and extend the lifespan of the monitor. HP Display Assistant is a software utility that allows monitor adjustment and color calibration using the Display Data Channel Command Interface (DDC/CI) protocol of the connected PC.
	User Guide Languages	English, French, German, Spanish, Italian, Dutch, Brazilian Portuguese, Danish, Finnish, Greek, Japanese, Korean, Latin American Spanish, Norwegian, Polish, Russian, Slovenian, Turkish, Swedish, Traditional Chinese, Simplified Chinese
	Warranty Languages	English, Canadian French, LA Spanish, Brazilian Portuguese, Danish, German, Castilian Spanish, French, Italian, Dutch, Norwegian, Finnish, Swedish, Bahasa Indonesian, Korean, T. Chinese, Simplified Chinese
	Cabinet Color	Carbonite black and silver (two-tone)
	VESA Mounting Support	Yes (standard 4 hole pattern, 100 mm); base must first be removed
	Kensington Lock	Yes
Certification and Compliance		Australian ACA Approval, Canadian Requirements/CSA, CE Marking, China CCIB/CCEE Approval, CISPR Requirements, Eastern European Approvals, Energy Star Compliant, FCC Approval, German Ergonomic (TUV and GS Mark), ISO 13406-2 Compliant (Pixel Defect Guidelines), Mexican NOM Approval, MPR-II Compliant, PC2001 Compliant, PC99 Certified, S. Korean MIC Approval, Taiwan BSMI Approval, TCO 03 (emissions, ergonomics, environment), TUV-Ergo, UL Listed, VCCI Approvals, Microsoft® Windows® Certification, Windows Vista™ Certification

DRAFT

Compatibility	VESA Video Signal Standard (VSIS) Compliant video cards have been tested and proven compatible for use with the HP L1950 Flat Panel Monitor. Recommended for use with HP products.
Service and Warranty	Three years parts, labor, and on-site service. 24-hour, 90-day, toll-free technical support. Replacement options may include second business day on-site service, or next business day direct replacement, at HP's sole discretion. With direct replacement, HP will ship a replacement display product directly to you. Using the prepaid shipping labels provided, return your failed display to HP in the same packaging as the replacement. Certain restrictions and exclusions apply. For details see your product warranty or contact HP Customer Support.

© Copyright 2007 Hewlett-Packard Development Company, L.P.

Microsoft and Windows are trademarks or registered trademarks of Microsoft Corporation in the U.S. and other countries. Windows Vista is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

[i] The HP Flat Panel Monitor Quick Release has been designed to support a maximum of up to 24 lbs (10.9 kg) depending upon the mounting configuration used. Please note this is a total weight limit for all devices mounted, i.e. the combined weight of the monitor and a second device such as the HP Compaq t5000 Series Thin Client cannot exceed 24 pounds. Because mounting surfaces vary widely and the final mounting method and configuration may vary, mounting fasteners are not supplied (other than the VESA-compliant screws). HP recommends that you consult with a qualified engineering, architectural or construction professional to determine the appropriate type and quantity of mounting fasteners required for your application and to ensure that your mounting solution is properly installed to support applied loads.

DRAFT